

Referências bibliográficas

- ABREU, J. V. *Estudo do concreto de alta resistência compactado com rolo para pavimentação*. Dissertação (Mestrado) – Escola Politécnica, Universidade de São Paulo, São Paulo, 2002.
- AHLVIN, R. G. Origin of developments for structural design of pavements. *Technical Report GL-91-26*, Waterways Experiment Station, U.S. Army Corps of Engineers, Vicksburg, 1991.
- ALUNGHE, G. D.; TIA, M. Effects of coefficient of thermal expansion and modulus of elasticity on concrete pavement performance. In: International Workshop on the design and Evaluation of Concrete Pavements, 3., 1994, Krumbach. *Proceedings...* Krumbach: Crow-Piarc-Cembureau, 1994. Record 14. p.187-202.
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS – AASHTO. *Guide for the design of pavement structures*. Washington D.C., 1993.
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS – AASHTO. *Supplement to the AASHTO guide for design of pavement structures* – Part II – Rigid pavement design & rigid pavement joint design. ISBN 1-56051-078-1, Washington D.C., 1998.
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS – AASHTO. Mechanistic-empirical design of new and rehabilitated pavement structures. *Design guide*, Project I-37A, National Cooperative Highway Research Program, Washington D.C., 2002.
- AMERICAN CONCRETE INSTITUTE – ACI. Standard practice for curing concrete. *ACI Manual of Concrete Practice*, Farmington Hills, 1997.
- AMERICAN CONCRETE PAVEMENT ASSOCIATION – ACPA. Design and construction of joints for concrete highways. *Concrete Information*, TB010P, Arlington Heights, 1991.
- AMERICAN CONCRETE PAVEMENT ASSOCIATION – ACPA. Proper use of isolation and expansion joints in concrete pavements. *Concrete Information*, IS400.01P, Arlington Heights, 1992.
- AMERICAN CONCRETE PAVEMENT ASSOCIATION – ACPA. *Directive position on strength control*. Disponível em: <www.pavement.com>. Acesso em 17 ago. 2004.
- ANDRADE, T. Tópicos sobre durabilidade do concreto. In: *Concreto: ensino, pesquisa e realizações*. São Paulo: Instituto Brasileiro do Concreto, 2005. cap. 25.
- APPLIED RESEARCH ASSOCIATES - ARA. *Islab2000 software*. Disponível em: <<http://wwwара.com/products/ISLAB2000.htm>>. Acesso em: 2 maio 2006.
- ARCELOR MITTAL. *Fios e cordoalhas para concreto protendido*. Disponível em: <http://www.belgomineira.com.br/produtos/construcao_civil/>. Acesso em: 18 mar. 2009.

- ASHBY, M. F.; JONES, D. R. H. *Engineering materials – an introduction to their properties and applications*. Elmsford: Pergamon Press, 1980.
- ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS – ABNT. *Projeto de Estruturas de Concreto – Procedimentos*. NBR 6118, Rio de Janeiro, 2003.
- BALBO, J. T. *Aplicação do método dos elementos finitos na avaliação estrutural de pavimentos rígidos rodoviários*. Dissertação (Mestrado) – Escola Politécnica, Universidade de São Paulo, São Paulo, 1989.
- BALBO, J. T. *Estudo das propriedades mecânicas das misturas de brita e cimento e sua aplicação aos pavimentos semi-rígidos*. Tese (Doutorado) – Escola Politécnica, Universidade de São Paulo, São Paulo, 1993.
- BALBO, J. T. *High quality cement treated crushed stones for concrete pavement bases*. In: International Purdue Conference on Concrete Pavement Design and Materials for High Performance, 6., 1997, Indiana. *Proceedings...* Indiana: Purdue University, 1997a. v.1. p. 195-207.
- BALBO, J. T. *Pavimentos asfálticos – patologias e manutenção*. São Paulo: Pléiade, 1997b.
- BALBO, J. T. *Contribuição à análise estrutural de reforços ultradelgados de concreto de cimento portland sobre revestimentos asfálticos (whitetopping ultradelgado)*. Tese (Livre Docência) – Escola Politécnica, Universidade de São Paulo, São Paulo, 1999.
- BALBO, J. T. Performance in fatigue cracking of high strength concrete as ultra-thin whitetopping. In: Annual Meeting of the Transportation Research Board, 82., 2003, Washington D.C. *Proceedings...* CD-ROM, 2003.
- BALBO, J. T. Pavimentos viários e pisos industriais de concreto. In: *Concreto: ensino, pesquisa e realizações*. São Paulo: Instituto Brasileiro do Concreto, 2005. v.2. cap. 42. p. 1297-1332.
- BALBO, J. T. Britas graduadas tratadas com cimento: uma avaliação de sua durabilidade sob enfoque de porosidade, tenacidade e fratura. *Transportes*, Rio de Janeiro, v. 14, n. 1, 2006.
- BALBO, J. T. *Pavimentação asfáltica – materiais, projeto e restauração*. São Paulo: Oficina de Textos, 2007.
- BALBO, J. T.; Rodolfo, M. P. Slab geometry and load position effects on ultra-thin whitetoppings: considerations based on numerical solution. In: INTERNATIONAL WORKSHOP ON DESIGN THEORIES AND THEIR VERIFICATION OF CONCRETE SLABS FOR PAVEMENTS AND RAILROADS, 4., 1998, Buçaco. *Proceedings...* Buçaco: Crow, 1998.
- BALBO, J. T.; RODOLFO, M. P. Modelagem de tensões em pavimentos de concreto. In: CONGRESSO DE ENSINO E PESQUISA EM TRANSPORTES, 17., 2003, Rio de Janeiro. *Anais...* Rio de Janeiro: ANPET, 2003.
- BALBO, J. T.; Severi, A. A. Thermal gradients in concrete pavements in a tropical environment: experimental appraisal. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1809, p. 12-22, 2002.
- BALBO, J. T.; Tia, M.; Pitta, M. R. Development of a model for stress calculation in ultra-thin whitetopping based on 2-D finite element method. *International Journal of Pavements*, v. 1, n. 3, p. 69-80, 2002.
- BALBO, J. T. et al. Pesquisa dos efeitos do clima sobre pavimentos de concreto: instrumentação da pista experimental na USP. In: CONGRESSO DE PESQUISA E ENSINO EM TRANSPORTES, 14., 2000, Gramado. *Anais...* Rio de Janeiro: ANPET, 2000. v. 1. p. 533-538.
- BALBO, J. T. et al. Respostas estruturais de pavimentos de concreto simples obtidas por instrumentação em acesso à Rodovia SP-79 na Fábrica Santa Helena –

- Votorantim. In: Congresso Brasileiro do Concreto, 43., 2003, Vitória. *Anais...* Instituto Brasileiro do Concreto, 2003. CD-ROM.
- BALBO, J. T. et al. Calibração de tensões em pavimentos de concreto simples com base em medidas físicas em pistas experimentais. In: CONGRESSO DE PESQUISA E ENSINO EM TRANSPORTES, 18., 2004, Florianópolis. *Anais...* Rio de Janeiro: ANPET, 2004. v. 1. p. 307-318.
- BARELLA, R. M. *Contribuição para a avaliação da irregularidade longitudinal de pavimentos com perfilômetros iniciais*. Tese (Doutorado) – Escola Politécnica, Universidade de São Paulo, São Paulo, 2007.
- BARENBERG, E.; ZOLLINGER, D. G. Validation of concrete pavements responses using instrumental pavements. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1286, p. 67-77, 1990.
- BAUMANN, R.; WEISGERBER, F. E. Yield-line analysis of slabs-on-grade. *Journal of Structural Engineering*, American Society of Civil Engineers, v. 109, n. 7, p. 1553-1568, 1983.
- BETONSTRASSEN, A. G. *Pavimentazioni in calcestruzzo cementizio*. Wildegg, 1986.
- BRADBURY, R. D. *Reinforced concrete pavements*. Washington D.C.: Wire Reinforced Institute, 1938.
- BUCH, N. Factors affecting load transfer across transverse joints in jointed concrete pavements. In: *Recent developments in the design and specification of concrete pavement systems*. Farmington Hills: American Concrete Institute, 1999. Special Publication 181. p. 43-64.
- BURNHAM, T. Concrete pavement performance and research at the Minnesota Road Research Project - The first ten years. In: International Conference on Concrete Pavements, 8., 2005, Colorado Springs. *Proceedings...* Colorado Springs: International Society for Concrete Pavements, 2005. CD-ROM.
- CECCATO, M. R. *Estudo da trabalhabilidade do concreto reforçado com fibras de aço*. Dissertação (Mestrado) – Escola Politécnica, Universidade de São Paulo, São Paulo, 1998.
- CEMBUREAU. *Betonstrassen für Europa*. Malmo: Beton-Verlag GmbH, 1964.
- CERVO, T. C. *Estudo da resistência à fadiga de concretos de cimento Portland para pavimentação*. Tese (Doutorado em Engenharia) – Escola Politécnica, Universidade de São Paulo, São Paulo, 2004.
- CERVO, T. C.; BALBO, J. T. Estudo sobre medidas de resistência à tração na flexão de concretos para pavimentos com emprego de amostras reduzidas. In: CONGRESSO BRASILEIRO DO CONCRETO, 46., 2004, Florianópolis. *Anais...* Florianópolis: Instituto Brasileiro do Concreto, 2004. CD-ROM.
- CERVO, T. C. ; BALBO, J. T. Modelagem à fadiga de concreto convencionalmente empregado no Brasil versus modelo atualmente utilizado no país. In: Reunião Anual de Pavimentação, 36., 2005, Curitiba. *Anais...* Rio de Janeiro: Associação Brasileira de Pavimentação, 2005.
- CERVO, T. C. et al. Innovative aspects of the concrete pavement design standard for São Paulo highways. In: International Conference on Concrete Pavements, 8., 2005, Colorado Springs. *Proceedings...* Colorado Springs: International Society for Concrete Pavements, 2005. v. 1. p.61-74.
- CERVO, T. C. et al. *Influence of curing procedures and porosity in the flexural resistance of concretes for paving*. 2009. Disponível em <www.ptr.poli.usp.br/lmp>.
- CHATTIN, B. Ultrathins' becoming popular. Building with concrete, *DJC Special Publication*, 1997. Disponível em: <<http://www.djc.com/special/concrete/10003370.htm>>.

- CHILDS, L. D. A study of slab action in concrete pavements under static loads. In: Annual Meeting of the Highway Research Board, 27., 1947, Washington D.C. *Proceedings...* Washington D.C.: Highway Research Board, 1947. p. 64-84.
- CHOU, Y. T. Structural analysis computer program for rigid multicomponent pavement structures with discontinuities, Wesliquid and Weslayer. Report 1 – Program development and numerical presentations. *Tech. Report GL-81-6*. Vicksburg: US Army Corps of Engineers, Waterway Experiment Station, 1981.
- CHOUBANE, B.; TIA, M. Nonlinear temperature gradient effect on maximum warping stresses in rigid pavements. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1370, p.11-19, 1992.
- CIBERMÉTRICA. *Perfilômetro laser para medida de irregularidade longitudinal*. Disponível em: <www.cibermetrica.com.br>. Acesso em: 9 maio 2007.
- CLEANLINE CONCRETE, Inc. Disponível em: <www.cleanlineconcrete.com>. Acesso em: 27 jul. 2009.
- COLE, L. W.; MACK, J.; PACKARD, R. Pavement condition surveys of ultra-thin whitetopping projects. In: International Purdue Conference on Concrete Pavement Design and Materials for High Performance, 6., 1997, Indiana. *Proceedings...* Indiana: Purdue University, 1997. v. 2. p. 175-188.
- COLIM, G. M. *Estudo dos fatores que afetam a transferência de carga em juntas de pavimentos de concreto simples*. Dissertação (Mestrado) – Escola Politécnica, Universidade de São Paulo, São Paulo, 2009.
- COLIM, G. M.; BALBO, J. T. Eficiência da transferência de carga em pavimentos de concreto: uma avaliação em ambiente tropical. In: Congresso Nacional do Concreto, 49., 2007, Bento Gonçalves – RS. *Anais...* Instituto Brasileiro do Concreto, 2007. CD-ROM.
- COMPANHIA ENERGÉTICA DE SÃO PAULO – CESP. *A reatividade potencial de agregados para concretos*. Laboratório CESP de Engenharia Civil, Ilha Solteira, 2000.
- CONSTRUCTION SUPER NETWORK. *Bringing ultra-thin whitetopping back to Kentucky*. 1997. Disponível em: <<http://www.supernetwork.net> CSN/features/d050697.htm>.
- CORINI, F. *Scienza e tecnica delle costruzioni stradali e ferroviarie*. Milano: Editore Ulrico Hoepli, 1947.
- CORNELISSEN, H. A. W. *Fatigue failure of concrete in tension*. The Netherlands: Heron, 1984. v. 29, n. 4.
- CROVETTI, J. A. *Design and evaluation of jointed concrete pavements systems incorporating free-draining base layers*. PhD Thesis, University of Illinois at Urbana-Champaign, 1994.
- CROVETTI, J. A. *Deflection-based analysis techniques for jointed concrete pavement systems*. *Journal of the Transportation Research Board*, Washington D.C., n. 1809, p. 3-11, 2002.
- CUTTELL, G. D. et al. Performance of rigid pavements containing recycled concrete aggregates. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1574, p. 89-98, 1994.
- DARTER, M. I. *Design of zero-maintenance plain jointed concrete pavement – development of design procedures*. Washington D.C.: US Department of Transportation, FHWA-77-11, v. 1, 1977.
- DARTER, M. I. *Initial evaluation of Michigan JRCP crack deterioration*. Lansing: Michigan Concrete Paving Association, 1988.
- DARTER, M. I. Concrete slab VS beam fatigue models. In: International Workshop on the Theoretical Design of Concrete Pavements, 2., 1990, Sigüenza. *Proceedings...* Sigüenza: Crow-Piarc-Cembureau, 1990. p. 472-481.

- DARTER, M. I. et al. Base and subgrade support effects on concrete pavement performance. In: International Workshop on the Design and Evaluation of Concrete Pavements, 3., 1994, Krumbach. *Proceedings...* Krumbach: Crow-Piarc-Cembureau, 1994. Record 14. p. 279-289.
- DIXON, J. C. *A fifty year evaluation of concrete pavement design, construction and inspection*. 1997. Disponível em: <http://www.eng.ohio-state.edu/mm/OTEC_15_Dixon.html>.
- DOMENICHINI, L.; MARCHIONNA, A. Influence of stress range on plain concrete pavement fatigue design. In: International Conference on Concrete Pavement Design, 2., 1981, Indiana. *Proceedings...* Indiana: Purdue University, 1981.
- DUTRA, Y. V.; GOUVÉA, O.; BRANDÃO, T. S. *Método de dimensionamento – MD-2. Normas e Especificações para Serviços de Pavimentação*. São Paulo: Prefeitura do Município de São Paulo, 1967.
- FARAGGI, V.; JOFRE, C.; KRAMER, C. Combined effect of traffic loads and thermal gradients on concrete pavement design. In: Workshop on Theoretical Design of Concrete Pavements, 1986, Epen. *Proceedings...* Epen: Crow-Piarc-Cembureau, 1986.
- FEDERAL AVIATION ADMINISTRATION – FAA. *Airport pavement design and evaluation*. Advisory Circular No. 150/5320-6E, U.S. Department of Transportation, Washington D.C., 2009.
- FEDERAL AVIATION ADMINISTRATION - FAA. *Development of a computer program – COMFAA – for calculating pavement thickness and strength*. Airport Technology Research and Development Branch, Atlantic City, 2003.
- FEDERAL AVIATION ADMINISTRATION – FAA. *Rubbled Portland cement concrete base course*. Engineering Brief No. 66, U.S. Department of Transportation, Washington D.C., 2004.
- FEDERAL AVIATION ADMINISTRATION – FAA. *Airport pavement design and evaluation*. Advisory Circular No. 150/5320-6E, U.S. Department of Transportation, Washington D.C., 2008.
- FEDERAL HIGHWAY ADMINISTRATION – FHWA. Pavement rehabilitation manual. *FHWA-ED-88-025*, U.S. Department of Transportation, Washington D.C., 1990.
- FEDERAL HIGHWAY ADMINISTRATION – FHWA. Distress identification manual for the long-term pavement performance program. *FHWA-RD-03-031*, U.S. Department of Transportation, Washington D.C., 2003.
- FEDERAL HIGHWAY ADMINISTRATION - FHWA. Guide for curing of Portland cement concrete pavements. *FHWA-RD-02-099*, U.S. Department of Transportation, McLean (VA), v. 1, 2005.
- FEDERAL HIGHWAY ADMINISTRATION - FHWA. Curing Portland cement concrete Pavements. *FHWA-HRT-05-038*, U.S. Department of Transportation, Washington D.C., v. 2, 2006.
- FERREIRA, L. E. T. *Sobre a resistência ao fraturamento do concreto e do concreto reforçado com fibras de aço*. Tese (Doutorado) – Escola Politécnica, Universidade de São Paulo, São Paulo, 2002.
- FERREIRA, M. R. Histórico dos caminhos do mar. *Revista DER*, Departamento de Estradas de Rodagem do Estado de São Paulo, n. 118, p. 5-23, 1973.
- FIGUEIREDO, A. D. Concreto com fibras. In: ISAIA, G. C. (Org.). *Concreto: ensino, pesquisa e realizações*. 1. ed. São Paulo: Instituto Brasileiro do Concreto, 2005. v. 2. p. 1195-1225.
- FLEISCHER, W. *Concrete for heavily loaded modern traffic areas (Part 1 and 2)*. Beton 11, p. 536-597, 2003.

- FRANCO, J. E. J. *Controle tecnológico na rodovia dos imigrantes*. Primeiro Seminário DERSA Rodovia dos Imigrantes, p. 114-123, São Paulo, 1976.
- FRIBERG, B. F. Load and deflection characteristics of dowels in transverse joints of concrete pavements. *Transactions, American Society of Civil Engineers*, 1940, v. 105.
- FURNAS CENTRAIS ELÉTRICAS S.A. *Concretos – massa, estrutural, projetado e compactado com rolo - Ensaios e propriedades*. São Paulo: Pini, 1997.
- FUSCO, P. B. *Estruturas de concreto – Fundamentos do projeto estrutural*. São Paulo: McGraw-Hill do Brasil-Edusp, 1976.
- FUSCO, P. B. *Estruturas de concreto. Solicitações normais*. Rio de Janeiro: Guanabara Dois, 1981.
- GOLDBECK, A. T. Thickness of concrete slabs. *Public Roads*, v. 1, n. 12, 1919.
- GOMEZ-SOBERON, J. M. V. Porosity of recycled concrete with substitution of recycled concrete aggregate: an experimental study. *Cement and Concrete Research*, v. 32, p. 1301-1311, March 5, 2002.
- GRAÇA, N. G.; BITTENCOURT, R. M.; SANTOS, S. B. dos. Efeitos da temperatura sobre o concreto. In: *Concreto: ensino, pesquisa e realizações*. São Paulo: Instituto Brasileiro do Concreto, 2005. v. 2. cap. 23. p. 687-711.
- GROVE, J. D.; HARRIS, G. K.; SKINNER, B. J. Bond contribution to whitetopping performance on low volume roads. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1382, p. 104-110, 1992.
- HAIDER, M.; VON FAHRBAHNOBERFLÄCHEN, L. *Concrete pavements today and tomorrow*. Austrian Conference on Concrete Roads, Betonstrassen, Vienna, 2007.
- HALL, K. T. *Performance, evaluation and rehabilitation of asphalt overlaid concrete pavements*. PhD Thesis, University of Illinois at Urbana-Champaign, 1991.
- HALL, K. T. Long-life concrete pavements in Europe and Canada. *FHWA-PL-07-027*, Federal Highway Administration, Washington D.C., 2007.
- HALL, K. T.; DARTER, M. I. Development of k value concepts and procedures. In: International Workshop on the Design and Evaluation of Concrete Pavements, 3., 1994, Krumbach. *Proceedings...* Krumbach: Crow-Piarc-Cembureau, 1994. p. 449-462.
- HALL, K. T. et al. LTPP data analysis: Phase I: validation of guidelines for k-value selection and concrete pavement performance prediction. *FHWA-RD-96-198*, U.S. Department of Transportation, Washington D.C., 1997.
- HAMMITT, G. M. II. *Concrete strength relationships*. U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, 1971.
- HASPARYK, N. P. et al. Deformações por retração e fluência. In: *Concreto: ensino, pesquisa e realizações*. São Paulo: Instituto Brasileiro do Concreto, 2005. cap. 22.
- HAWBAKER, L. *Summary report of UTW in North America 1988-1995*. National Ready Mix Concrete Association & American Concrete Pavement Association, 1996.
- HELENE, P. R. L. Dosagem do concreto de cimento Portland. In: ISAIA, G. C. (Org.). *Concreto: ensino, pesquisas e realizações*. 1 ed. São Paulo: Ibracon, 2005. v. 1. p. 439-472.
- HELENE, P. R. L.; TERZIAN, P. *Manual de dosagem e controle do concreto*. São Paulo: Pini, 1992.
- HERTZ, H. *Über das gleichgewicht schwimmender elastischer platten*. Widemann's, Annalen der Physik und Chemie, v. 22, p. 449-455, 1884.
- HILSDORF, H. K.; KESLER, C. E. Fatigue strength of concrete under varying flexural stresses. *American Concrete Institute Journal*, Detroit, v. 63, n. 10, p.1059-1076, 1966.

- HO CHO; HUN YEO. Application of recycled waste aggregate to lean concrete sub-base in highway pavement. *Canadian Journal of Civil Engineering*, v. 31, p. 1101-1108, 2004.
- HOEL, L. A.; SHORT, A. J. The engineering of the interstate highway system. *TR News*, Transportation Research Board, Washington D.C., n. 244, p. 22-29, 2006.
- HOFF, G. C. *Use of steel fiber reinforced concrete in bridge decks and pavements*. Steel Fiber Concrete US-Sweden Joint Seminar (Stockholm). London: Elsevier Applied Science, 1985, p.67-107.
- HOGG, A. H. A. Equilibrium of thin plate symmetrically loaded resting on an elastic subgrade of infinite depth. *Philosophical Magazine*, v. 25, n. 7, 1938.
- HOLLAND, T. Silica fume user's manual. *Report FHWA-IF-05-016*, US Department of Transportation, Federal Highway Administration, Washington D.C., 2005.
- HIGHWAY RESEARCH BOARD – HRB. The AASHO Road Test - Report 5 - Pavement research. Highway Research Board, *Special Report 61E*, Washington D.C., 1962.
- HSU, T. C. Fatigue of plain concrete. *American Concrete Institute Journal*, Proceedings, v. 78, 1981.
- HUANG, Y. H. *Pavement analysis and design*. Englewood Cliffs: Prentice Hall, 1993.
- HUGHES, H. W. Thin concrete topping restores old pavement. *American Concrete Institute Journal*, Detroit, Title No. 47-44, p. 653-659, 1951.
- ILLINOIS DIVISION OF HIGHWAYS – IDH. Fatigue of Concrete. *Engineering Report*, Springfield, v. 4, n. 34-1, 1934.
- INSTITUTO BRASILEIRO DO CONCRETO – IBRACON. *Reações expansivas em estruturas de concreto*. Contribuição do Comitê de Especialistas do Ibracon. Disponível em: <www.ibracocon.br>. Acesso em: 17 ago. 2005.
- IOANNIDES, A. M. *Analysis of slabs-on-grade for a variety of loading and support conditions*. PhD Thesis, University of Illinois at Urbana-Champaign, 1984.
- IOANNIDES, A. M. Pavement design. *CEE 607* (supplementary class notes), University of Cincinnati, 1999.
- IOANNIDES, A. M. Concrete pavement analysis: the first eighty years. *International Journal of Pavement Engineering*, v. 7, p. 233-249, 2006.
- IOANNIDES, A. M.; KHAZANOVICH, L.; BECQUE, J. L. *Structural evaluation of base layers in concrete pavement systems*. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1370, p. 20-28, 1992.
- IOANNIDES, A. M.; KHAZANOVICH, L. Load equivalency concepts: a mechanistic reappraisal. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1388, p.24-51, 1993.
- IOANNIDES, A. M.; THOMPSON, M. R.; BARENBERG, E. J. Westergaard solutions reconsidered. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1043, p. 13-22, 1985.
- ISAIA, G. C. (Org.) *Concreto: ensino, pesquisa e realizações*. São Paulo: Instituto Brasileiro do Concreto, 2005.
- IWAMA, S.; FUKUDA, T. Design method and researches of concrete pavements in Japan. In: Workshop on Theoretical Design of Concrete Pavements, 1986, Epen. *Proceedings...* Epen: Crow-Piarc-Cembureau, 1986.
- JACINTHO, A. E. P. G. A.; GONGO, J. S. Resistência mecânica do concreto. In: *Concreto: ensino, pesquisa e realizações*. São Paulo: Instituto Brasileiro do Concreto, 2005. cap. 20. p. 605-632.
- JACKSON, F. H.; ALLEN, H. Concrete pavements on the German autobahen. *American Concrete Institute Journal*, Detroit, v. 20, n. 4, Part 2, p. 933-976, 1948.
- JOHANSEN, K. W. *Yield line theory*. London: William Clowes & Sons, 1962.

- KELLEY, E. F. Application of the results of research to the structural design of concrete pavements. *American Concrete Institute Journal*, Detroit, v. 35, p. 437-464, 1939.
- KENNEDY, G.; GOODCHILD, C. Practical yield line design. 1. ed. Crowtherne: Reinforced Concrete Council, British Cement Association, 2003.
- KERR, A. D. The evolution of foundation models and analyses for concrete pavements. In: International Workshop on the Design and Evaluation of Concrete Pavements, 3., 1994, Krumbach. *Proceedings...* Krumbach: Crow-Piarc-Cembureau, 1994, p. 61-70.
- KHAZANOVICH, L. *Structural analysis of multi-layered concrete pavement systems*. PhD Thesis, University of Illinois at Urbana-Champaign, 1994.
- KHAZANOVICH, L.; IOANNIDES, A. M. Finite element analysis of slabs-on-grade using improved subgrade soil models. In: ASCE Specialty Conference Airport Pavement Innovations: Theory to practice, Waterways Experiment Station, Vicksburg. *Proceedings...* p. 16-30, 1993.
- KHAZANOVICH, L.; TOMPKINS, D. Singularities in concrete pavement analysis. In: *Proceedings on Fractures Mechanics for Concrete Pavements: Theory to practice*. Copper Mountain: International Society for Concrete Pavements, 2005.
- KOHN, S. D.; ROLLINGS, R. S. *Overlay design*. London: Elsevier Applied Science, 1988. p. 319-346.
- KOK, A. W. M. A PC program for the analysis of rectangular pavement structures. In: International Workshop on the Theoretical Design of Concrete Pavements, 2., 1990, Sigüenza. *Proceedings...* Sigüenza: Crow-Piarc-Cembureau, 1990, p. 113-120.
- KOROVESIS, G. T. Analysis of slab-on-grade pavement systems subjected to wheel and temperature loadings. PhD Thesis, University of Illinois at Urbana-Champaign, 1990.
- KOSMATKA, S. H. et al. *Diseño y control de mezclas de concreto*. Skokie: Portland Cement Association, 2004.
- KOU, S. C.; POON, C. S.; CHAN, D. Influence of fly ash as cement replacement on the properties of recycled aggregate concrete. *Journal of Materials in Civil Engineering*, ASCE, p. 709-717, 2007.
- KOYANAGAWA, M.; YONEYA, H.; KOKUBU, K. Evaluation of reliability of concrete pavement in consideration of fatigue properties. In: International Workshop on the Design and Evaluation of Concrete Pavements, 3., 1994, Krumbach. *Proceedings...* Krumbach: Crow-Piarc-Cembureau, 1994. p. 207-216.
- KRENN, H.; STINGLHAMMER, H. Aus alt mach neu: Betondeckenerstellung in recyclingbauweise. In: International Symposium on Concrete Roads, 7., 1994, Viena. *Proceedings...* Viena: Piarc-Cembureau, 1994.
- LEES, G.; MAYNARD, D. P. *Skidding resistance of concrete surfaces*. Concrete Pavements. London: Elsevier Applied Science, 1988.
- LEMLIN, M.; VAN CAWELAERT, F.; JASIENSKI, A. The principle of axle load equivalencies reconsidered for rigid pavements. In: International Workshop on Design Theories and their verification of concrete slabs for pavements and railroads, 4., 1998, Buçaco. *Proceedings...* Buçaco: Crow, 1998. Record 19, p. 81-94.
- LEVY, S.; HELENE, P. R. L. Cura do concreto: por que, como e até quando é necessária? *Revista Concreto*, Instituto Brasileiro do Concreto, São Paulo, 2004.
- LOSBERG, A. Pavement and slabs on grade with structurally active reinforcement. *American Concrete Institute Journal*, Title No. 75-66, p. 647-657, 1978.
- LOSBERG, A. *Structurally reinforced concrete pavements*. Thesis (PhD), Gotemburg Institute of Technology, 1960. (Em sueco).
- LOVE, A. E. H. *A treatise on the mathematical theory of elasticity*. London: Cambridge University Press, 1934.

- MACK, J. W. et al. Model development and interim design procedure guidelines for ultra-thin whitetopping pavements. In: International Purdue Conference on Concrete Pavement Design and Materials for High Performance, 6., 1997, Indiana. *Proceedings...* Indiana: Purdue University, 1997. v. 1. p. 231-256.
- MACK, J. W.; COLE, L. W.; MOHSEN, J. P. Analytical considerations for thin concrete overlays on asphalt. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1388, p. 167-173, 1993.
- MAJIDZADEH, K. A mechanistic approach to rigid pavement design. In: STOCK, A. F. (Ed.). *Concrete Pavements*. London-New York: Elsevier Applied Science, 1988. p. 11-56.
- MANLOUK, M. S.; ZANIEWSKI, J. P. *Materials for civil and construction engineers*. 2. ed. Upper Saddle River: Pearson Prentice Hall, 2006.
- MARIN, V. J. F. G.; BALBO, J. T. *Análise de deformações em armaduras de pavimentos de concreto armado em pista instrumentada*. In: Panorama Nacional da Pesquisa em Transportes 2004. Associação Nacional de Pesquisa e Ensino em Transportes, Florianópolis, 2004. CD-ROM.
- MCGHEE, K. H.; OZYILDIRIM, C. Construction of a thin-bonded Portland cement concrete overlay using accelerated paving techniques. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1335, p. 19-26, 1992.
- MERRIT, D. K.; TYSON, S. S. Precast prestressed concrete pavement – a long-life approach for rapid repair. In: International Conference on Long-Life Concrete Pavements, 2006, Chicago. *Proceedings...* Federal Highway Administration, 2006. p. 497-512.
- METHA, P. K.; MONTEIRO, P. J. M. *Concreto: estrutura, propriedades e materiais*. São Paulo: Pini, 1994.
- MEYERHOF, G. G. Load-carrying capacity of concrete pavements. *Journal of the Soil Mechanics and Foundation Division, American Society of Civil Engineering*, v. 88, No. SM3, Part 1, p. 89-116, 1962.
- MINDLIN, R. D. Influency of rotatory inertia and shera on flexural motions of isotropic elastic plates. *Journal of Applied Mechanics, Transactions of American Society of Mechanical Engineers*, v. 18, p. 31-38, 1951.
- Minnesota Department of Transportation – MDT. *State aid – Concrete pavement rehabilitation best practices manual 2006*. Manual Number 2006-31, Saint Paul, 2006.
- MINER, M. A. Cumulative damage in fatigue. *Transactions, American Society of Mechanical Engineer*, v. 67, p. A159-A164, 1938.
- MUGAYAR, A. N. et al. Avaliação do efeito da adição de borracha moída de pneus no concreto compactado com rolo. In: Reunião de Pavimentação Urbana, 16., 2009, Belo Horizonte. *Anais...* Rio de Janeiro: Associação Brasileira de Pavimentação, 2009.
- NANTUNG, T. *Cracking in concrete: an agency perspective of current trends and specifications*. In: Annual Meeting of the Transportation Research Board, 86., 2007, Washington D.C. Workshop 103, Concrete cracking: agency needs, field observations, fundamental material behavior, and modeling. 2007. CD-ROM.
- NEVILLE, A. M. *Propriedades do concreto*. São Paulo: Pini, 1997.
- NISHIZAWA, T.; FUKUDA, T. Warping stresses equation of transverse joint edge of concrete slab based on FEM analysis. In: International Workshop on the Design and Evaluation of Concrete Pavements, 3., 1994, Krumbach. *Proceedings...* Krumbach: Crow-Piarc-Cembureau, 1994.
- NOGAMI, J. S. *Principais rochas de interesse às obras civis*. Apostila da disciplina PMI-811, Escola Politécnica, USP, São Paulo, 1977.

- OLDER, C. Highway research in Illinois. ASCE Transactions, v. 87, 1924.
- OWUSU-ANTWI, E.; DARTER, M. I. Early results of the LTPP concrete pavement data analysis. In: International Workshop on the Design and Evaluation of Concrete Pavements, 3., 1994, Krumbach. *Proceedings...* Krumbach: Crow-Piarc-Cembureau, 1994. p. 463-477.
- PACKARD, R. G.; TAYABJI, S. New PCA thickness design procedure for concrete highway and street pavements. In: International Conference on Concrete Pavement Design and Rehabilitation, 3., 1984, West Lafayette. *Proceedings...* West Lafayette: Purdue University, 1984. p. 225-236.
- PALMGREN, A. Die lebensdauer von kugellagern. *Zeitschrift des Vereins Deutscher Ingenieure*, v. 68, p. 339-341, 1922.
- PENTEADO, T. Rodovias brasileiras. Contribuição para o 2o. Congresso Panamericano de Estradas de Rodagem, Rio de Janeiro, 1929.
- PEREIRA, D. S. *Estudo do comportamento de pavimentos de concreto simples em condições de aderência entre placa de concreto e base cimentada ou asfáltica*. Tese (Doutorado) – Escola Politécnica, Universidade de São Paulo, São Paulo, 2003.
- PEREIRA, D. S.; BALBO, J. T. Comportamento e desempenho de WTUD sobre pavimento asfáltico delgado. In: Congresso da ANPET, 16., 2002, Natal. *Anais: Panorama Nacional da Pesquisa em Transportes*. Rio de Janeiro: ANPET, 2002. v. 1. p. 299-307.
- PEREIRA, D. S.; BALBO, J. T.; KHAZANOVICH, L. Theoretical and field evaluation of interaction between ultra-thin whitetopping and existing asphalt pavement. *International Journal of Pavement Engineering*, v. 7, n. 4, p. 251-260, 2006.
- PETERSSON, O. Swedish design method for joint concrete pavements. In: International Workshop on the Theoretical Design of Concrete Pavements, 2., 1990, Sigüenza. *Proceedings...* Sigüenza: Crow-Piarc-Cembureau, 1990. p. 233-243.
- PETRUCCI, E. G. R. Controle tecnológico dos pavimentos de concreto. *Anais da Reunião Anual da Associação Brasileira de Pavimentação*, Rio de Janeiro, 1963.
- PICKETT, G.; RAY, G. K. Influence charts for concrete pavements. *Transactions, American Society of Civil Engineers*, v. 116, p. 49-73, 1951.
- PINTO, P. C. et al. Reutilização da escória de alto-forno como fração areia em mistura de concreto compactado com rolo. In: Reunião de Pavimentação Urbana, 16., 2009, Belo Horizonte. *Anais...* Rio de Janeiro: Associação Brasileira de Pavimentação, 2009.
- PITTMAN, D. W.; RAGAN, S. A. Drying shrinkage of roller compacted concrete for pavements applications. *ACI Materials Journal*, 1998.
- PORTLAND CEMENT ASSOCIATION - PCA. *Thickness design for concrete pavements*. IS 010.03P. Skokie, 1966.
- PORTLAND CEMENT ASSOCIATION - PCA. Thickness design for concrete highway and street pavements. *Engineering Bulletin 109.01P*, Illinois, 1984.
- PORTLAND CEMENT ASSOCIATION - PCA. Concrete paving - 100 years of progress through innovation. *Concrete in Highway Transportation*, n. 10, Skokie, 1991.
- PORTLAND CEMENT ASSOCIATION - PCA. Design and control of concrete mixtures. *Engineering Bulletin 001*, 14. ed., Skokie, 2002.
- Prefeitura do Município de São Paulo – PMSP. Instruções de Projeto. IP-07: Pavimentos de concreto. Portaria 084/SIURB G/2004, *Diário Oficial do Município de São Paulo*, Secretaria de Infra-estrutura Urbana, São Paulo, 2004.
- PRONK, Ad. C.; van den BOL, M. E. *Winkler, Pasternak, Kerr Foundations*. Notes on boundary conditions. Reprint of paper presented at the BCNS Conference, Trondheim, 1998.

- RAMAKRISHNAN, V. A new material (polyolefin fiber reinforced concrete) for the construction of pavements and white-topping of asphalt roads. In: International Purdue Conference on Concrete Pavement Design and Materials for High Performance, 6., 1997, Indiana. *Proceedings...* Indiana: Purdue University, 1997. v. 1. p. 131-148.
- RAMSAMOOJ, D. V. Prediction of fatigue cracking of rigid pavements. In: International Workshop on the Design and Evaluation of Concrete Pavements, 3., 1994, Krumbach. *Proceedings...* Krumbach: Crow-Piarc-Cembureau, 1994. p. 401-409.
- REISSNER, E. The effect of transverse shear deformation on the bending of elastic plates. *Journal of Applied Mechanics, Transactions of American Society of Mechanical Engineers*, v. 12, p. 69-77, 1945.
- RICCI, G. *Estudo de características mecânicas do concreto compactado com rolo com agregados reciclados de construção e de demolição para pavimentação*. Dissertação (Mestrado em Engenharia) – Escola Politécnica, Universidade de São Paulo, São Paulo, 2007.
- RICCI, G.; BALBO, J. T. Estudo de resistências e módulo de elasticidade do concreto compactado com rolo com agregados reciclados de construção e de demolição para pavimentação. In: Congresso Brasileiro do Concreto, 50., 2008, Salvador. *Anais...* São Paulo: Instituto Brasileiro do Concreto, 2008.
- RISSER, R. J. et al. *Ultra-thin concrete overlays on existing asphalt pavement*. Preprint for the 5th International Conference on Concrete Pavement Design and Rehabilitation, Purdue University, West Lafayette, 1993.
- RODOLFO, M. P. *Análise de tensões em pavimentos de concreto com base cimentada e sujeitos a gradientes térmicos*. Dissertação (Mestrado) – Escola Politécnica, Universidade de São Paulo, São Paulo, 2001.
- RODOLFO, M. P.; BALBO, J. T. Stress analysis of cemented bases on concrete pavement. In: International Symposium on Concrete Roads, 8., 1998, Lisbon. *Proceedings...* Lisbon: Piarc-Cembureau, 1998. Theme I, p. 21-25.
- RODOLFO, M. P.; BALBO, J. T. Modelagem de tensões em pavimentos de concreto submetidos a gradientes térmicos. In: Congresso de Ensino e Pesquisa em Transporte, 14., 2000, Gramado. *Anais: Panorama Nacional da Pesquisa em Transportes*. Rio de Janeiro: ANPET, 2000. p. 551-563.
- RODOLFO, M. P.; BALBO, J. T. Modelagem de tensões em pavimentos de concreto submetidos a gradientes térmicos e cargas rodoviárias. In: *Transporte em Transformação* V. São Paulo: Makron Books/Confederação Nacional do Transporte, 2002. cap. 7. p. 101-117.
- RODOLFO, M. P.; BALBO, J. T. Stresses in concrete pavements: models to compute stresses considering tropical climate thermal gradients and wheel loads. In: Annual Conference of the CANADIAN SOCIETY FOR CIVIL ENGINEERING, 37., 2008, Quebec. *Proceedings...* Montreal, 2008.
- RODRIGUES, P. P. F.; PITTA, M. R. Pavimento de concreto estruturalmente armado. *Revista Ibracon*, São Paulo, n. 19, set/dez 1997.
- ROLLINGS, R. Why concrete pavements are still failing? In: INTERNATIONAL CONFERENCE ON CONCRETE PAVEMENTS, 8., Colorado Springs, 2005. *Proceedings...* International Society for Concrete Pavements, 2005. CD-ROM.
- SACHET, T. et al. Uso de fresado asfáltico em concreto compactado com rolo para pavimentação. In: ReUNIÃO DE PAVIMENTAÇÃO URBANA, 16., 2009, Belo Horizonte. *Anais...* Belo Horizonte: Associação Brasileira de Pavimentação, 2009.
- SAYERS, M. W.; GILLESPIE, T. D.; PATERSON, W. D. O. Guidelines for conducting and calibrating road roughness measurements. *World Bank Technical Paper* No. 46, Washington D.C, 1986.

- SBRIGHI NETO, C. Agregados para concretos. In: *Concreto: ensino, pesquisa e realizações*. São Paulo: Instituto Brasileiro do Concreto, 2005. cap. 11. p. 323-343.
- SCHMIDT, M. *Pavimentos de concreto protendidos*. Treinamento de Pavimentos de Concreto para Projetistas, Associação Brasileira de Cimento Portland e Laboratório de Mecânica de Pavimentos da USP, São Paulo, 2002.
- SHACKELFORD, J. F. *Introduction to materials science for engineers*. Upper Saddle River: Prentice Hall, 2000.
- SHEHATA, L. D. Deformações instantâneas no concreto. In: *Concreto: ensino, pesquisa e realizações*. São Paulo: Instituto Brasileiro do Concreto, 2005. v. 1. cap. 21. p. 633-654.
- SHÜEPP, W. *Concrete roads in Switzerland with particular reference to site control*. Paper presented at the Fifth World Meeting of the International Road Federation, London, 1966.
- SILVA, M. R.; PINHEIRO, S. M. de M. Biodeterioração do concreto. In: *Concreto: ensino, pesquisa e realizações*. São Paulo: Instituto Brasileiro do Concreto, 2005. v. 2. cap. 28. p. 857-878.
- SINGH, S. *Big Bang*. Rio de Janeiro: Record, 2006.
- SNYDER, M. B. et al. Physical and mechanical properties of recycled PCC aggregate concrete. *Report DTFH61-93-C-00133*, Federal Highway Administration, US Department of Transportation, Washington D.C., 1997.
- SÖDERLUND, M. et al. Green Roads: a sustainability rating system for roadways. In: ANNUAL MEETING OF THE TRANSPORTATION RESEARCH BOARD, 87, 2008. *Proceedings...* Washington D.C., 2008.
- SOMERO ENTERPRISES, Inc. Disponível em: <www.somero.com>. Acesso em: 2 jan. 2008.
- SORIANO, H. L. *Método dos elementos finitos em análise de estruturas*. Colaborador: Silvio de Souza Lima. São Paulo: Edusp, 2003.
- SPANGLER, M. G. Stresses in concrete pavement slabs. In: ANNUAL MEETING OF THE HIGHWAY RESEARCH BOARD, 15., Washington D.C., 1935. *Proceedings...* Washington D.C., 1935. p. 122-146.
- SPANGLER, M. G. Stresses in corner region of concrete pavements. *Bulletin 157*, Engineering Experiment Station, Iowa State College, Ames, 1942.
- SPANGLER, M. G.; LIGHTBURN, F. E. Stresses in concrete pavement slabs. In: Annual Meeting of the Highway Research Board, 17. Washington D.C., 1937. *Proceedings...* Washington D.C., 1937. p. 215-234.
- STEIGENBERGER, J. Concrete roads in Austria - The newest trends and developments. In: International Concrete Roads Conference, 2003, Bratislava. *Proceedings...* Slovak Republic, 2003
- STET, M. J. A.; FRÉNAY, J. Fatigue properties of plain concrete. In: International Symposium on Concrete Roads, 8., 1998, Lisbon. *Proceedings...* Lisbon: Piarc-Cembureau, 1998. Theme I. p. 129-136.
- STURTEVANT, J. R.; GRESS, D. L.; SNYDER, M. B. Performance of rigid pavements containing recycled concrete aggregates – 2006 update. *Federal Highway Administration Report*, Washington D.C., 2008.
- SUSTERSIC, J.; MALI, E.; URBANCIC, S. *Erosion-abrasion resistance of steel fiber reinforced concrete*. In: Durability of Concrete; Second International Conference. Detroit: American Concrete Institute, 1991. SP-126. v. 2. p. 729-743.
- TABATABAIE, A. M.; BARENBERG, E. J. Structural analysis of concrete pavement systems. *Journal of Transportation Engineering*, ASCE, v. 106, n. 5, p. 493-506, 1980.

- TANESI, J. A. *A influência das fibras de polipropileno no controle da fissuração por retração*. Dissertação (Mestrado) – Escola Politécnica, Universidade de São Paulo, São Paulo, 1999.
- TANESI, J. A. et al. *Effect of the variability on concrete pavement performance as predicted using the mechanistic-empirical pavement design guide*. Paper presented at the 86th Annual Meeting of the Transportation Research Board, Washington D.C., 2007.
- TAYABJI, S. D.; COLLEY, B. E. Improved pavement joints. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 930, p. 69-78, 1983.
- TAYABJI, S. D.; HALPENNY, D. Thickness design of roller compacted concrete pavements. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1136, p.23-31, 1987.
- TAYABJI, S. D.; JIANG, Y. J. Mechanistic evaluation of test data from LTPP jointed plain concrete pavement test section. In: International Workshop on Design Theories and their verification of concrete slabs for pavements and railroads, 4., 1998, Buçaco. *Proceedings...* Buçaco: Crow, 1998.
- TELLER, L. W.; SUTHERLAND, E. C. The structural design of concrete pavements. Part 5: An experimental study of the Westergaard analysis of stress conditions in concrete pavement slabs of uniform thickness. *Public Roads*, Washington D.C., v. 23, n. 8, p. 168-212, 1935.
- TIA, M; BALBO, J. T. *Relatório científico*. Programa de Professor Visitante, Fundação de Amparo à Pesquisa do Estado de São Paulo, São Paulo, 1997.
- TIA, M. et al. *Field evaluation of rigid pavements for the development of a rigid pavement design system*. Phase IV, Final Report, Department of Civil Engineering, College of Engineering, University of Florida, Gainesville, 1986.
- TIA, M. et al. Coefficient of thermal expansion of concrete used in Florida. *HPR Study No. 0409*, Final Report, Florida Department of Transportation, Gainesville, 1989.
- TOMPKINS, D.; KHAZANOVICH, L.; DARTER, M. I. *Composite Pavement European Tour – Chapter 1: Recommendations*. Strategic Highway Research Program, Federal Highway Administration, U.S. Department of Transportation, Washington D.C., 2008.
- TRICHÉS, G. *Concreto compactado a rolo para aplicação em pavimentação: estudo do comportamento na fadiga e proposição de metodologia de dimensionamento*. Tese (Doutorado) – Instituto Tecnológico da Aeronáutica, São José dos Campos - SP, 1993.
- TURNER-FAIRBANK HIGHWAY RESEARCH CENTER (TFHRC). Disponível em <www.tfhrc.gov>. Acesso em: 14 abr. 2009.
- UNITED STATES ARMY CORPS OF ENGINEERS – USACE. Pavement maintenance management. *Technical Manual No. 5-623*. Headquarters, Department of the Army, Washington D.C., 1982.
- UNITED STATES DEPARTMENT OF TRANSPORTATION – USDOT. Transportation applications of recycled concrete aggregate. *FHWA State of the Practice National Review*, Washington D.C., 2004.
- VALERA, B.; NAVA, R.; MIRANDA, E. An autonomous system for linear and angular measurements in big surfaces. *Journal of Applied Research and Technology*, v. 2, n. 2, p.116-126, 2003.
- VAN CAWELAERT, F. et al. Investigation by FWD measurements of the value of Pasternak's parameter in a Winkler foundation. In: International Workshop on the Design and Evaluation of Concrete Pavements, 3., 1994, Krumbach. *Proceedings...* Krumbach: Crow-Piarc-Cembureau, 1994. p. 71-80.

- VAN DER MOST, H. E.; LEEWIS, M. Design of concrete pavements. In: Workshop on Theoretical Design of Concrete Pavements, 1986, Epen. *Proceedings...* Epen: Crow-Piarc-Cembureau, 1986.
- VANCURA, M.; TOMPKINS, D.; KHAZANOVICH, L. Reappraisal of recycled concrete aggregate as a coarse aggregate in concretes for rigid pavements. Paper submitted in 31 July 2008 in consideration for Transportation Research Board 88th Annual Meeting, 11-15 January 2009.
- WEISS, W. J.; OZYILDIRIM, C. *Concrete cracking: agency needs, field observations, fundamental material behavior, and modeling.* In: Annual Meeting of the Transportation Research Board, 86., 2007, Washington D.C. Transportation Research Board, 2007. CD-ROM.
- WERNER, R. Roadway pavements of recycled concrete. In: International Symposium on Concrete Roads, 7., 1994, Viena. Session 3, Reconstruction: recycling, stabilization. *Proceedings...* Viena: Piarc-Cembureau, 1994.
- WESTERGAARD, H. M. Computation of stresses in concrete roads. In: Annual Meeting of the Highway Research Board, 5., 1926, Washington D.C. *Proceedings...* v. 5, p. 90-112, 1926.
- WESTERGAARD, H. M. Analysis of stresses in concrete pavements due to variations of temperature. In: Annual Meeting of the Highway Research Board, 6., 1927, Washington D.C. *Proceedings...* p. 201-215, 1927.
- WESTERGAARD, H. M. Stresses in concrete runways of airports. In: Annual Meeting of the Highway Research Board, 19., 1939, Washington D.C. *Proceedings...* p. 197-205, 1939.
- WESTERGAARD, H. M. New formulas for stresses in concrete pavements of airfields. *Transactions, American Society of Civil Engineers*, v. 113, p. 425-439, 1948.
- WESTERGAARD, H. M. *Theory of Elasticity and Plasticity.* New York: Dover Publications, 1952.
- WINKLER, E. *Die lehre von der elasticität und festigkeit.* Praga: Verlag H., 1867.
- Wire Reinforcing Institute - WRI. Innovative ways to reinforce slabs-on-ground. TF-705-R03, Hartford, 2006.
- WOLF, T.; FLEISCHER, W. *Moderner Betonstrassenbau in Deutschland.* International Conference on Concrete Roads, Bratislava, 2007.
- YANG, K. H.; CHUNG, H. S.; ASHOUR, A. F. Influence of type and replacement level of recycled aggregates on concrete properties. *ACI Materials Journal*, Title n. 105-M34, p. 289-296, 2008.
- YANG, N. C. *Design offunctional pavements.* New York: McGraw-Hill, 1972.
- YAO, Z. Design theory and procedure of concrete pavements in China. In: International Workshop on the Theoretical Design of Concrete Pavements, 2., 1990, Sigüenza. *Proceedings...* Sigüenza: Crow-Piarc-Cembureau, 1990. p. 401-415.
- YODER, E. J.; WITCZAK, M. W. *Principles of pavement design.* 2. ed. New York: John Wiley & Sons, 1975.
- YRJANSON, W. A. Recycling Portland cement concrete. In: International Conference on Concrete Pavement Design, 2., 1981, Indiana. *Proceedings...* Indiana: Purdue University, 1981. p. 431-444.
- YRJANSON, W. A. *NCHRP Synthesis 154: Recycling of Portland cement concrete pavements.* Transportation Research Board, National Research Council, Washington D.C., 1989.
- ZOLLINGER, D. Sawcut depth considerations for jointed concrete pavements based on fracture mechanics analysis. *Transportation Research Record: Journal of the Transportation Research Board*, Washington D.C., v. 1449, p. 91-100, 1994. 87. 1981.